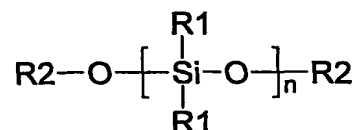


Claims

1. Ambient temperature curable coating composition comprising

- 5 - a branched alkoxy-functional polysiloxane having the formula



10 wherein each R1 is selected from the group consisting of alkyl, aryl, and alkoxy groups having up to six carbon atoms, and OSi(OR3)₃ groups, wherein each R3 independently has the same meaning as R1, each R2 is selected from the group consisting of hydrogen and alkyl and aryl groups having up to six carbon atoms, and wherein n is selected such that the molecular weight of the polysiloxanes is in the range of from 200 to about 5,000,

- 15 - a catalyst,
 - an acrylic polymer which is substantially free of functional groups that can react with the polysiloxane or with the catalyst in the coating composition,

wherein said coating composition comprises more than 60% by weight solids.

20 2. Coating composition according to claim 1, characterised in that the acrylic polymer is obtained by polymerisation in the polysiloxane.

3. Coating composition according to claim 1 or 2, characterised in that the polysiloxane is an alkoxysilyl-functional polysiloxane.

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4. Coating composition according to any one of the preceding claims, characterised in that the catalyst is amino-functional.

5. Coating composition according to claim 4, characterised in that the catalyst is an aminosilane.
6. Coating composition according to any one of the preceding claims,
5 characterised in that the acrylic polymer has a glass transition temperature between 0°C and 100°C.
7. Coating composition according to any one of the preceding claims,
10 characterised in that the coating composition has been obtained by polymerising 20-80% by weight of acrylic monomers in 80-20% by weight of polysiloxane, wherein the % by weight is calculated based on the total weight of the olefinically unsaturated monomers plus the polysiloxane before the start of the polymerisation reaction of the acrylate monomers, followed by adding the catalyst.
- 15 8. Coating composition according to claim 7, characterised in that the coating composition has been obtained by polymerising 1-60% by weight of methyl methacrylate and 0-70% by weight of butyl methacrylate in 20-80% by weight of polysiloxane, wherein the % by weight is calculated based on the
20 total weight of the olefinically unsaturated monomers plus the polysiloxane before the start of the polymerisation reaction of the acrylate monomers, followed by adding the catalyst.
9. Use of a coating composition according to any one of the preceding claims
25 as a protective coating.
10. Use of a coating composition according to any one of claims 1-9 for the coating at ambient temperature of large structures such as ships, bridges, buildings, industrial plants, or oil rigs.